CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2015 Certified Company
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Job No.: CTCE/BBMP/SVC/W.No.06/CSR-41c/CEMENT/2020-21 Date: 19.02.2021

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. Santhosh.V.C,** Venkatapura, Chinnasandra, Chikkaballapura Taluk & District – 562101.
* Name of Work	:	Development of secondary drains in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/184/2020-21 Dated:03.02.2021
* Sample ID	:	Cement
Sample Received on	:	18.02.2021
Period of Testing	:	18.02.2021 to 19.02.2021
Report Issue Date	:	19.02.2021

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2019)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2019)	190 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2019)	390 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2019)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
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Job No.: CTCE/BBMP/SVC/W.No.06/CSR-41c/SAND-Gradation/2020-21 19.02.2021

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. Santhosh.V.C,** Venkatapura, Chinnasandra, Chikkaballapura Taluk & District – 562101.
* Name of Work	:	Development of secondary drains in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/184/2020-21 Dated:03.02.2021
* Sample ID	:	Fine Aggregates (Manufactured Sand)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received On	:	18.02.2021
Date of Testing	:	19.02.2021
Report Issue Date	:	19.02.2021

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.40	90-100	90-100	90-100	95-100
2.36	77.20	60-95	75-100	85-100	95-100
1.18	56.70	30-70	55-90	75-100	90-100
600 Micron	37.80	15-34	35-59	60-79	80-100
300 Micron	16.50	5-20	8-30	12-40	15-50
150 Micron	4.90	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Job No.: CTCE/BBMP/SVC/W.No.06/CSR-41c/AGG/GR/2020-21 19.02.2021

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. Santhosh.V.C,** Venkatapura, Chinnasandra, Chikkaballapura Taluk & District – 562101.
* Name of Work	:	Development of secondary drains in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/184/2020-21 Dated:03.02.2021
* Sample ID	:	Coarse Aggregates (40mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received on	:	18.02.2021
Date of Testing	:	19.02.2021
Report Issue Date	:	19.02.2021

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.14	95-100	85-100
20	39.94	30-70	0-20
10	13.50	10-35	0-5
4.75	3.12	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/SVC/W.No.06/CSR-41c/AGG/GR/2020-21 19.02.2021

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. Santhosh.V.C,** Venkatapura, Chinnasandra, Chikkaballapura Taluk & District – 562101.
* Name of Work	:	Development of secondary drains in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/184/2020-21 Dated:03.02.2021
* Sample ID	:	Coarse Aggregates (20mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963(RA-2016)
Sample Received on	:	18.02.2021
Date of Testing	:	19.02.2021
Report Issue Date	:	19.02.2021

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
40	100	100	100
20	97.24	90-100	85-100
10	40.34	25-55	0-20
4.75	5.52	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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27.02.2021

Job No.: CTCE/BBMP/SVC/W.No.06/CSR-41c/CC Solid Block/2020-21

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. Santhosh.V.C,** Venkatapura, Chinnasandra, Chikkaballapura Taluk & District – 562101.
* Name of Work	:	Development of secondary drains in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/184/2020-21 Dated:03.02.2021
Test Method As Per	:	IS: 2185 (Part-1) : 2005 (RA-2015)
Size of Blocks	:	400mm x 150mm x 200mm
Cross Sectional Area	:	60000 mm^2
No. of Blocks Tested	:	08
Sample Received on	:	26.02.2021
Date of Testing	:	27.02.2021
Report Issue Date	:	27.02.2021

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2015)
1	Block 1	25.62	335.6	5.59	Minimum required Compressive Strength of Individual Units 5.00 N/mm^2
2	Block 2	26.35	341.2	5.69	
3	Block 3	25.45	342.6	5.71	
4	Block 4	24.15	328.5	5.48	
5	Block 5	25.90	335.4	5.59	
6	Block 6	26.33	342.9	5.72	
7	Block 7	24.85	351.8	5.86	
8	Block 8	25.90	346.6	5.78	

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:

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Job No.: CTCE/BBMP/SVC/W.No.06/CSR-41c/CC Solid Block/2020-21 27.02.2021

TEST REPORT ON BLOCK DENSITY OF SOLID CONCRETE BLOCKS

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. Santhosh.V.C,** Venkatapura, Chinnasandra, Chikkaballapura Taluk & District – 562101.
* Name of Work	:	Development of secondary drains in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/184/2020-21 Dated:03.02.2021
Test Method as per	:	IS - 2185 (Part-1) : 2005 (RA-2015)
Size of Blocks	:	400mm x 150mm x 200mm
Cross Sectional Area	:	60000 mm^2
No. of Blocks Tested	:	03
Sample Received on	:	26.02.2021
Date of Testing	:	27.02.2021
Report Issue Date	:	27.02.2021

Sl.No.	Size of Block in mm	Density in Kg/m^3	Average Density Kg/m^3	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2015)
1	400x150X200	2296.253	2278.35	1800 kg/m^3
2	400x150X200	2275.250		
3	400x150X200	2263.560		

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/SVC/W.No.06/CSR-41c/Cube/2020-21

25.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. Santhosh.V.C,** Venkatapura, Chinnasandra, Chikkaballapura Taluk & District – 562101.
* Name of the work	:	Development of secondary drains in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/184/2020-21 Dated:03.02.2021
* Sample ID	:	Raft Concrete for Drain
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.03.2021
Report Issue Date	:	25.03.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.02.2021	25.03.2021	8.162	495.5	22.02
2	25.02.2021	25.03.2021	8.325	515.6	22.92
3	25.02.2021	25.03.2021	8.295	485.2	21.56

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/SVC/W.No.06/CSR-41c/Cube/2020-21 25.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. Santhosh.V.C,** Venkatapura, Chinnasandra, Chikkaballapura Taluk & District – 562101.
* Name of the work	:	Development of secondary drains in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/184/2020-21 Dated:03.02.2021
* Sample ID	:	Raft Concrete for Drain
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.03.2021
Report Issue Date	:	25.03.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.02.2021	25.03.2021	8.197	515.3	22.90
2	25.02.2021	25.03.2021	8.208	524.6	23.32
3	25.02.2021	25.03.2021	8.320	535.6	23.80

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Job No.: CTCE/BBMP/SVC/W.No.06/CSR-41c/Cube/2021-22

15.04.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. Santhosh.V.C,** Venkatapura, Chinnasandra, Chikkaballapura Taluk & District – 562101.
* Name of the work	:	Development of secondary drains in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/184/2020-21 Dated:03.02.2021
* Sample ID	:	Coping Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	15.04.2021
Report Issue Date	:	15.04.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.03.2021	15.04.2021	8.142	365.8	16.26
2	18.03.2021	15.04.2021	8.384	397.2	17.65
3	18.03.2021	15.04.2021	8.271	376.5	16.73

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Job No.: CTCE/BBMP/SVC/W.No.06/CSR-41c/Cube/2021-22

15.04.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. Santhosh.V.C,** Venkatapura, Chinnasandra, Chikkaballapura Taluk & District – 562101.
* Name of the work	:	Development of secondary drains in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/184/2020-21 Dated:03.02.2021
* Sample ID	:	Coping Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	15.04.2021
Report Issue Date	:	15.04.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.03.2021	15.04.2021	8.193	370.2	16.45
2	18.03.2021	15.04.2021	8.276	392.5	17.44
3	18.03.2021	15.04.2021	8.303	396.5	17.62

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/SVC/W.No.06/CSR-41c/Precast Slab/2020-21

29.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. Santhosh.V.C,** Venkatapura, Chinnasandra, Chikkaballapura Taluk & District – 562101.
* Name of work	:	Development of secondary drains in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/184/2020-21 Dated:03.02.2021
* Sample ID	:	Precast Slab - 100MM
* Grade of Concrete	:	M_{20}
Test Method As Per	:	IS - 516 (Part-4) : 2018
Sample Received on	:	27.03.2021
Date of Testing	:	29.03.2021
Report Issue Date	:	29.03.2021

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.395	2514.65	1.60	0.957	30.20	15.38	16.61	17.36	21.70
2	50.00	81.00	0.398	2502.47	1.62	0.959	32.45	16.53	17.85	18.61	23.27
3	50.00	82.00	0.405	2515.42	1.64	0.961	32.15	16.37	17.68	18.40	23.00

* Information is furnished by the Customer/Representative

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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M/s. Civil-Tech Consultants & Engineers

Authorised Signatory

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